NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		IF - 12965 —	
		WF - 51858 —	
		LWC - 12965 —	
		CGST - 1297	
		Roy - 21143 —	
		Fine - 2000	
		total - 102228 = 00	

M. A. R. 57 (Rule 116)

Measurement Book

No. B

Serial No. SBRNO-205/15-16

Name of Work A/c 15-12-15 From To BR-244 261663/31-12-15

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Name of work :- Road Development & Repairing works at Abhaya layout Residency Roads. (ward No 11 (Change place to Singapura layout Anjaneya Temple Surrounds (in ward No. 11)						
	Work code No. 911-15.000037 Estimated cost Rs 10.00 lakhs						
	Work order No - EE/BSP/BBMP/e-PMS/68/15-16 Dt:- 29/4/15						
	Name of Agency :- Sri N. Keerthi #66 Bhandappa Building Yelahanka						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Earth work excavation by manual Means in ordinary soil involving an average horizontal throw up to 2mts & an average lift up to 0.5m excavated surface leveled & sides neatly dressed the disposed earth to be leveled neatly after breaking of clods etc complete as per specification Shrinkage Allowance						
	Triple side 2nd Means	2	30.00	0.45	0.35 =	9.45	
	Detailing Drawing	2	30.00	0.45	0.45 =	12.15	

Serial No. .....
Name of Work .....
Name of Contractor of natur
Date of commencement of w

Date	Full description, e
1	2
	2nd Mans

NT BOOK

mensions			Contents	Reference to last Measurement
h	Breadth 5	Depth 6	7	8

y manual Mean is an average horizontal average lift up to 0.5m d & scales neatly dressed levelled neatly after plete as per specifications

30.00 x0.45x0.35= 9.45

30.00 x0.45x0.45=12.15

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261664

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	0.45	0.35	9.45	
		2	30.00	0.45	0.30	8.10	
		2	30.00	0.45	0.35	9.45	
		2	32.60	0.45	0.45	13.20	
	2nd main Road	2	30.00	0.45	0.35	9.45	
		2	30.00	0.45	0.40	10.80	
		2	30.00	0.45	0.35	9.45	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	27.80	0.45	0.35	= 8.76	
	Berm Cutting and Making Sloping layer Angeles Triple Side	2	30.00	1.00	0.20	= 12.00	
		2	30.00	0.95	0.15	= 8.55	
		2	30.00	1.05	0.20	= 12.60	
		2	30.00	0.95	0.15	= 8.55	
		2	30.00	0.90	0.15	= 8.10	
		2	32.60	0.85	0.25	= 13.86	
	And Making Road	2	30.00	1.00	0.20	= 12.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2

ENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
7·80	× 0·45	× 0·35 =	8·78	
0·00 ×	1·00 ×	0·20 =	12·00	
30·00 ×	0·95 ×	0·15 =	8·55	
30·00 ×	1·05 ×	0·20 =	12·60	
30·00 ×	0·95 ×	0·15 =	8·55	
30·00 ×	0·90 ×	0·15 =	8·10	
32·60 ×	0·85 ×	0·25 =	13·86	
30·00 ×	1·00 ×	0·20 =	12·00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 261665

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		2	× 30·00	× 1·10	× 0·25 =	16·50	
		2	× 30·00	× 1·25	× 0·20 =	28·00	S-10
		2	× 27·80	× 1·15	× 0·15 =	9·59	
	Cum		Total Qty			217·01 Cum	
	Allowed		Limited to			214·97 Cum	
	30.09.19		Sh. 75·41			Rs. 16211=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2) Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 5 mts & an average lift upto 0.5 m, excavated surface leveled & sides neatly dressed, the dispersed earth to be leveled neatly after breaking clods etc. complete as per specifications.						
	3rd Main Sriyapunglayout Bungalow Pepla side		1 × 30.00 × 5.60 + 4.65 / 2 × 0.15 = 23.06				
			1 × 30.00 × 4.65 + 4.90 / 2 × 0.15 = 21.49				

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	2nd Main Road

NT BOOK

mensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		manual Means by hand	
		horizontal throw upto	
		to 0.5m, excavated	
		arly dressed, the dispersed	
		after breaking of clods	
		eations.	
		00×5.60+4.65/2×0.15=23.06	
		.00×4.65+4.90/2×0.15=21.49	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

261666

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	30.00	4.90+4.90/2	0.15	= 22.05	
		1	30.00	4.90+4.80/2	0.15	= 21.83	
		1	30.00	4.80+5.45/2	0.15	= 23.06	
		1	32.60	5.45+5.90/2	0.15	27.75	
	2nd Main Road	1	30.00	4.40+4.40/2	0.15	19.80	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{4.40+4.20}{2}$	0.45	19.35	
		1	30.00	$\frac{4.20+4.00}{2}$	0.45	18.45	
		1	27.80	$\frac{4.00+6.70}{2}$	0.45	20.22	
	Crude Total Qty					217.06 kg	
	3% deducted on					210.78 kg	
	J kg 105.48					Kg. 2225.00	
	L kg						

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of wo

Date	Full description, etc
1	2
	3) Removing B prem

T BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		14.40+4.20 / 2 × 0.45 = 19.35	
		14.20+14.00 / 2 × 0.45 = 18.45	
		14.00+6.70 / 2 × 0.45 = 20.22	
		217.06 kg	
		210.7845	
		Rs. 2225/-	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 261667

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
3)	Removing B-S Slab Drain & Shifting etc						
	procurement qty vide pages					261697	
	Total qty					352.88 kg	
	Limited to					351.00 kg	
	Rs. 58.17					Rs. 20418/00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4) Replacing the stone slabs & dowels & pointing in CM (1:3) etc, complete as per vide Item No. 3		Total qty			357.00 Sqm	
			357.00			Rs 26469/00	
	5) providing laying Spreading & Compacting graded stone aggregates to Wet Mix Macadam Specifications						

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of wo

Date	Full description, etc
1	2
	including Mechanical sipper to gr Sub-base (bo with vibrator Complete as pre measu

NT BOOK

Dimensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
			+ days 9 pointing in	
			No. 3	
			Rubbing	3871.00
			1.75.41	Rs 26469.00
			ing of Compacting grooved	
			+ Macadam Specifications	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

261668

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including premixing the materials with water at one in Mechanical Mix plant Conveyage of Mixed Material by tipper to site, laying in Uniform layers with paver in Sub-base/base Course on well prepared Surface of Capacity with vibratory roller to achive the desired density etc Complete as per Specifications.						
	Premeasurement qty vide page No 261699						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Total Qty					253.87 cum	
	Limited to				253.87	252.90 cum	
	Rs 1434.94					Rs. 362901/-	
	6) Cleaning the existing WBM road surface including removing of binding Materials & other foreign Matter with wire brushes & Sharp picks, sweeping with brooms or soft brushes & finally dusting with						

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of wo

Date	Full description, etc
1	2
	Old gunny ba
	- now treat
	Hong Mal
	3rd Mile Sign
	Byjaneya Pap

NT BOOK

mensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
			253.87 m3	
			252.90 m3	
			Rs. 362.90	
...ed surface including ...ials & other foreign ...ham pricks, sweeping ...& finally shifting with ...				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261669

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency ..... From..... To.....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Old gunny bags and/or Compressed air to remove bitumen - now treatment including cost of all Materials, labour Using Machines etc. Complete as per Specifications and Main Superintendent Engineer Engineer's Purple side.	1	30.00	5.60+4.65 / 2		= 153.75	
		1	30.00	4.65+4.90 / 2		= 143.25	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd Main Road	1	30.00		4.90+4.90/2	= 147.00	
		1	30.00		4.90+4.80/2	= 145.50	
		1	30.00		4.80+5.45/2	= 153.75	
		1	32.60		5.45+5.90/2	= 185.01	
		1	30.00		4.40+4.40/2	= 132.00	
		1	30.00		4.40+4.20/2	= 129.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work ...

Date	Full description, etc, of w
1	2

ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth 5	Depth 6	7	8
00	x 4.90 + 4.90 / 2		= 147.00	
1.00	x 4.90 + 4.90 / 2		= 145.80	
1.00	x 4.80 + 5.45 / 2		= 153.75	
2.60	x 5.45 + 5.90 / 2		= 185.01	
1.00	x 4.40 + 4.40 / 2		= 132.00	
0.00	x 4.40 + 4.20 / 2		= 129.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261670

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	30.00	x 4.20 + 4.00 / 2		= 123.00	
		1	27.80	x 4.00 + 5.70 / 2		= 134.85	
	Measured					1447.09 m2	
	M.B.		limited to			1400.00 m2	
			Rs. 12.77			Rs. 17892.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7) providing & applying primer coat for Surfacing Medium porosity like. Cement stabilized soil base @ 1.10 kg/Sqm over prepared Surface with 1.5 bitumen emulsion using bitumen sprinkler fitted with Spray Set (excluding cleaning of road Surface) including Cost of all Materials, labour TOM & Machinery etc. Complete as per Specifications.						
	Qty vide Items 6						
	Total Qty					1405.00 M2	

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, of
1	2
	8) providing &
	Crushed aggr
	with bitumin
	Mix to work
	the required

NT BOOK

nensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		Cost for Surfacing	
		Cement Stabilized	
		over prepared Surface	
		using bituminous emulsion	
		including cleaning &	
		off & all Materials	
		etc. Complete as per	
		1405.00 M²	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261671

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
			Up	14.33		Rs.	104434=00
	8) providing & laying Semi bituminous Concrete using Crushed aggregates of Specified grading, premixed with bituminous binder & Filler, transporting the hot Mix to work site laying with a paver finisher to the required grade, level & alignment, rolling with						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Smooth Wheeled, Vibratory & tandem rollers to achive the desired Compaction as per MORTH Specifications clause No. 508 using low-profile Capacity 10MT ~~Power~~ with Sensor paver grading II (25 to 30 MM) with SH. CRMB-55 grade etc Complete as per Specifications.						
	3rd Main Stripping layer Anganeys People Side	1	30.00	$\frac{5.64+4.65}{2}$	0.025	3.84	
		1	30.00	$\frac{4.65+4.90}{2}$	0.025	3.58	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work ...

Date	Full description, etc, of w
1	2

Madhavi Road

ENT BOOK

gth	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
y of tandem rollers to				
upervision as per Morth				
no. 508 using low-ash petr				
ing Senior power grading				
of CRMB-55 grade etc				
reeways.				
0.00 × 5.60+4.65/2 × 0.025 = 3.84				
0.00 × 4.65+4.90/2 × 0.025 = 3.58				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261672

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1 × 30.00 × (4.90+4.90)/2 × 0.025 = 3.68					
		1 × 30.00 × (4.90+4.80)/2 × 0.025 = 3.64					
		1 × 30.00 × (4.80+5.45)/2 × 0.025 = 3.84					
		1 × 32.60 × (5.45+5.90)/2 × 0.025 = 4.63					
	Dalmatia Road	1 × 30.00 × (4.40+4.40)/2 × 0.025 = 3.30					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{4.40+4.20}{2}$	0.025	3.23	
		1	30.00	$\frac{4.20+4.00}{2}$	0.025	3.08	
		1	27.80	$\frac{4.00+5.70}{2}$	0.025	3.37	
	Cartage Element	Total Qty				36.6843	
		Limited to				35.1343	
		Say SB. 1104.31				Rs. 38791.200	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
9)	Lead for Disposal of Excavated Earth from Drain on Road

NT BOOK

mensions			Contents	Reference to last Measurement
n	Breadth 5	Depth 6	7	8
			0×4.40+4.20/2×0.025=3.23	
			0×4.20+4.00/2×0.025=3.08	
			80×4.00+5.70/2×0.025=3.37	
			Total Qty 36.6843	36.19
			Ded 00	38.1343
			42.31	Rs. 3879172.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 261673

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	9) Lead for Disposal of Debris shall be payble at Carriage rates by Mechanical Means including loading & Unloading From One to another Site etc.						
			Extra Item No 1+2-				434.07
			Total Qty			428.72 Cum	
			Limited to			404.43 Cum	
			Rate 73.39			Rs. 29681=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certified that the above work done Satisfactorily Fully	Total				Rs 98738/-00 Fully	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ಪಟ್ಟಣ,
ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-97.

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of w

Date	Full description, e
1	2

NT BOOK

nensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
			Rs. 98738/-00	

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಸಂಚಾರಿ ನಿರ್ವಹಣಾ ವಿಭಾಗ,
ಯಂತ್ರಾಂಗ ಭವನ,
ಬಿ. ಮ ಕಾ. ಬೆಂಗಳೂರು-97.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

261674

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8